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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/606,209	06/24/2003	Morteza Gharib	06618-476003/CIT 3015-D-C	· · · · · · · · · · · · · · · · · · ·	
20985	7590 10/08/2004		EXAMINER		
	CHARDSON, PC MINO REAL	WHITE, DWAYNE J			
	, CA 92130-2081		ART UNIT	PAPER NUMBER	
	•		3745		

DATE MAILED: 10/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	on No.	Applicant(s)					
Office Action Summary		10/606,2	09	GHARIB, MORTEZA	, N ,				
		Examine	r	Art Unit					
		Dwayne c	J White	3745					
Period fo	The MAILING DATE of this communica or Reply	ation appears on th	e cover sheet with	the correspondence add	ess				
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNIC, nasions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum statute to reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no evication. days, a reply within the sta tory period will apply and w I, by statute, cause the app	vent, however, may a repl tutory minimum of thirty (i vill expire SIX (6) MONTH blication to become ABAN	ly be timely filed 30) days will be considered timely. IS from the mailing date of this com NDONED (35 U.S.C. § 133).	munication.				
Status									
1)🖂	Responsive to communication(s) filed	on <u>24 June 2003</u> .							
2a)□	•)⊠ This action is r	non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 2-27 is/are pending in the app 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 2-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from co							
10)⊠	The specification is objected to by the E The drawing(s) filed on <u>24 June 2003</u> is Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to be	s/are: a) accept on to the drawing(s) l ne correction is requir	be held in abeyance red if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR					
Priority u	ınder 35 U.S.C. § 119								
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International see the attached detailed Office action for the certification from the certificat	ocuments have been been been been the priority documents Bureau (PCT Ru	en received. en received in App ents have been re le 17.2(a)).	olication No eceived in this National S	tage				
Attachment			4) Intention Sur	nmary (PTO-413)					
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date <u>20030604</u> .		Paper No(s)/	Mail Date .rmal Patent Application (PTO-1	52)				

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the cylindrical rod formed with an outer surface that has bumps with rounded edges, grooves having a deeper portion which is further spaced from the first rotatable element and a less deep portion which is less spaced from said first rotatable element and a system, comprising: a first bladder pump, comprising a central shaft rotating in a first direction within an outer housing that includes inner grooves thereon, forcing fluid through said outer housing in a force direction when said central shaft is rotated in said first direction; and a second blade less pump assembly, located facing in a same direction as said first bladcless pump and comprising a central shaft, without blades, rotating in a second direction opposite to said first direction within an outer housing that includes inner grooves thereon, forcing fluid through said outer housing in said force direction when said central shaft is rotated in said second direction must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the

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drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:

On page 7, line 11, "that rounded" should be --that have rounded--.

Appropriate correction is required.

The amendment filed 11 March 2004 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows:

Claim 6 recites, "spacing the first rotating element from the second rotating element."

Claim 9 recites, "bending the first rotation element and the second rotating element."

Claims 12-14, and 16 recites "each of said grooves having a deeper portion which is further spaced from the first rotatable element and a less deep portion which is less spaced from said first rotatable element."

Claim 15 recites "setting a depth between said deeper portion and said less deep portion as proportional to a diameter of said first rotatable element."

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Claim 26 and 27 recites "a system, comprising: a first bladder pump, comprising a central shaft rotating in a first direction within an outer housing that includes inner grooves thereon, forcing fluid through said outer housing in a force direction when said central shaft is rotated in said first direction; and a second blade less pump assembly, located facing in a same direction as said first bladeless pump and comprising a central shaft, without blades, rotating in a second direction opposite to said first direction within an outer housing that includes inner grooves thereon, forcing fluid through said outer housing in said force direction when said central shaft is rotated in said second direction."

Applicant is required to cancel the new matter in the reply to this Office Action.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

Specifically, the specification does not disclose bending of a first and second rotating element, grooves having a deeper portion which is further spaced from the first rotatable element and a less deep portion which is less spaced from said first rotatable element or setting the depth between said deeper portion and said less deep portion as proportional to a diameter of said first rotatable element.

Claim Objections

Claim 27 is objected to because of the following informalities:

On line 2, "staff" should be --shaft--.

Appropriate correction is required.

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Claim 6 recites the limitation "second rotating element" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 9 recites the limitation "second rotating element" in line 2. There is insufficient antecedent basis for this limitation in the claim

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8, 10-16, 18-20 are 22-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Luijten et al. (4,270,882). Luijten et al. discloses a method of pumping a fluid comprising a causing an outward flow in a fluid between a rotating central shaft 2 and an outer housing 1. The central shaft has an outer surface that is substantially smooth and free of blades and has a constant diameter. A magnetic stator 14 is used to rotate the central shaft. The outer housing includes grooves 16 that are tilted in a specified direction (See Figure 3). The central shaft is spaced from the housing by an amount that prevents substantial leakage between the grooves. The method further comprises increasing the force of pumping by increasing the speed of rotation of the first element. It is the position of the Examiner that since the structure of the pump is disclosed, it would be possible for the pump of Luijten et al. to pump blood. Further, since propulsion is defined as the process of driving or propelling, it is the position of the

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Examiner the pump of Luijten et al. is driving the fluid and therefore is being used for propulsion.

CONCLUSION

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwayne J White whose telephone number is (703) 306-3464. The examiner can normally be reached on 7:30 am to 5 pm T-F and alternate Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on (703) 308-1044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dwayne White Patent Examiner

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DJW

EDWARD K. LOOK SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

9/30/04